

W110720005.ST25.txt  
SEQUENCE LISTING

<110> Williams, Kevin J.  
<120> Thrombospondin Fragments and Uses Thereof In Clinical Assays for  
Cancer and Generation of Antibodies and Other Binding Agents  
<130> W1107-20005  
<140> 10/419,462  
<141> 2003-04-21  
<160> 64  
<170> PatentIn version 3.3  
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<223> Thrombospondin Region  
<400> 1

Thr Glu Glu Asn Lys Glu  
1 5

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aid conjugation  
<400> 2

Cys Leu Gln Asp Ser Ile Arg Lys Val Thr Glu Glu Asn Lys Glu  
1 5 10 15

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<400> 3

Leu Gln Asp Ser Ile Arg Lys Val Thr Glu Glu Asn Lys Glu  
1 5 10

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Glu Gly Glu Ala Arg Glu  
 1 5

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Pro Gln Met Asn Gly Lys Pro Cys Glu Gly Glu Ala Arg Glu  
 1 5 10

<210> 6  
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<220>  
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 <400> 6

Glu Asp Thr Asp Leu Asp  
 1 5

<210> 7  
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 <400> 7

Tyr Ala Gly Asn Gly Ile Ile Cys Gly Glu Asp Thr Asp Leu Asp  
 1 5 10 15

<210> 8  
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<220>  
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 <400> 8

Cys Asn Ser Pro Ser Pro Gln Met Asn Gly Lys Pro Cys Glu Gly Glu  
 Page 2

1 5 10 15

Ala Arg

<210> 9  
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<220>  
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<400> 9

Arg Lys Val Thr Glu Glu Asn Lys Glu Leu Ala Asn Glu Leu Arg Arg  
 1 5 10 15

Pro

<210> 10  
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<220>  
 <223> Thrombospondin Region which includes an N-terminal CYS added to  
 aid conjugation

<400> 10

Cys Arg Lys Val Thr Glu Glu Asn Lys Glu Leu Ala Asn Glu Leu Arg  
 1 5 10 15

Arg Pro

<210> 11  
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<400> 11

Pro Gln Met Asn Gly Lys Pro Cys Glu Gly Glu Ala Arg  
 1 5 10

<210> 12  
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 <400> 12

Cys Glu Gly Glu Ala Arg  
 1 5

<210> 13  
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 <400> 13

Arg Lys Val Thr Glu Glu Asn Lys Glu  
 1 5

<210> 14  
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Asp Asp Asp Asp Asn Asp Lys Ile Pro Asp Asp Arg Asp Asn Cys  
 1 5 10 15

<210> 15  
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Asp Asp Asp Asp Asn Asp Lys Ile Pro Asp Asp Arg Asp Asn Cys  
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Asp Asp Asp Asp Asn Asp Lys  
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<400> 17

Asn Leu Pro Asn Ser Gly Gln Glu Asp Tyr Asp Lys Asp Gly  
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 <223> Thrombospondin Region plus N-terminal CYS to aid conjugation

<400> 18

Cys Asn Leu Pro Asn Ser Gly Gln Glu Asp Tyr Asp Lys Asp Gly  
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<400> 19

Glu Asp Tyr Asp Lys Asp  
 1 5

<210> 20  
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<400> 20

Cys Pro Tyr Asn His Asn Pro Asp Gln Ala Asp Thr Asp Asn Asn Gly  
 1 5 10 15

Glu Gly Asp

<210> 21

<211> 15  
<212> PRT  
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<400> 21

Cys Arg Leu Val Pro Asn Pro Asp Gln Lys Asp Ser Asp Gly Asp  
1 5 10 15

<210> 22  
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<220>  
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<400> 22

Asp Gln Lys Asp Ser Asp Gly Asp  
1 5

<210> 23  
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<400> 23

Cys Pro Tyr Val Pro Asn Ala Asn Gln Ala Asp His Asp Lys Asp Gly  
1 5 10 15

Lys Gly Asp Ala  
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<400> 24

Thr Glu Arg Asp Asp Asp  
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<220>  
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<400> 25

Asp Phe Ser Gly Thr Phe Phe Ile Asn Thr Glu Arg Asp Asp Asp  
1 5 10 15

<210> 26  
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<212> PRT  
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<400> 26

Glu Arg Lys Asp His Ser  
1 5

<210> 27  
<211> 14  
<212> PRT  
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<220>  
<223> Thrombospondin Region

<400> 27

Thr Arg Gly Thr Leu Leu Ala Leu Glu Arg Lys Asp His Ser  
1 5 10

<210> 28  
<211> 15  
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<220>  
<223> Thrombospondin Region plus N-terminal CYS

<400> 28

Cys Thr Arg Gly Thr Leu Leu Ala Leu Glu Arg Lys Asp His Ser  
1 5 10 15

<210> 29  
<211> 6  
<212> PRT  
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<220>  
<223> Thrombospondin Region

<400> 29

Asp Asp Lys Phe Gln Asp

1 5

<210> 30  
 <211> 14  
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<220>  
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<400> 30

Ala Asn Leu Ile Pro Pro Val Pro Asp Asp Lys Phe Gln Asp  
 1 5 10

<210> 31  
 <211> 15  
 <212> PRT  
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<220>  
 <223> Thrombospondin Region plus N-terminal CYS

<400> 31

Cys Ala Asn Leu Ile Pro Pro Val Pro Asp Asp Lys Phe Gln Asp  
 1 5 10 15

<210> 32  
 <211> 6  
 <212> PRT  
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<220>  
 <223> Thrombospondin region

<400> 32

Asp Cys Glu Lys Met Glu  
 1 5

<210> 33  
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 <212> PRT  
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<220>  
 <223> Thrombospondin Region

<400> 33

Glu Asp Arg Ala Gln Leu Tyr Ile Asp Cys Glu Lys Met Glu Asn  
 1 5 10 15

<210> 34  
 <211> 17  
 <212> PRT  
 <213> Artificial



<220>  
 <223> Thrombospondin Region  
 <400> 34

Cys Gly Thr Asn Arg Ile Pro Glu Ser Gly Gly Asp Asn Ser Val Phe  
 1 5 10 15

Asp

<210> 35  
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<220>  
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 <400> 35

Asn Arg Ile Pro Glu Ser Gly Gly Asp Asn Ser Val Phe Asp  
 1 5 10

<210> 36  
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 <212> PRT  
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 <223> Thrombospondin Region  
 <400> 36

Gly Trp Lys Asp Phe Thr Ala Tyr Arg Trp Arg Leu Ser His Arg Pro  
 1 5 10 15

Lys Thr Gly

<210> 37  
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<220>  
 <223> Thrombospondin region plus N-terminal CYS  
 <400> 37

Cys Gly Trp Lys Asp Phe Thr Ala Tyr Arg Trp Arg Leu Ser His Arg  
 1 5 10 15

Pro Lys Thr Gly  
 20

<210> 38  
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 <213> Human

<400> 38

Met Gly Leu Ala Trp Gly Leu Gly Val Leu Phe Leu Met His Val Cys  
 1 5 10 15

Gly Thr Asn Arg Ile Pro Glu Ser Gly Gly Asp Asn Ser Val Phe Asp  
 20 25 30

Ile Phe Glu Leu Thr Gly Ala Ala Arg Lys Gly Ser Gly Arg Arg Leu  
 35 40 45

Val Lys Gly Pro Asp Pro Ser Ser Pro Ala Phe Arg Ile Glu Asp Ala  
 50 55 60

Asn Leu Ile Pro Pro Val Pro Asp Asp Lys Phe Gln Asp Leu Val Asp  
 65 70 75 80

Ala Val Arg Ala Glu Lys Gly Phe Leu Leu Leu Ala Ser Leu Arg Gln  
 85 90 95

Met Lys Lys Thr Arg Gly Thr Leu Leu Ala Leu Glu Arg Lys Asp His  
 100 105 110

Ser Gly Gln Val Phe Ser Val Val Ser Asn Gly Lys Ala Gly Thr Leu  
 115 120 125

Asp Leu Ser Leu Thr Val Gln Gly Lys Gln His Val Val Ser Val Glu  
 130 135 140

Glu Ala Leu Leu Ala Thr Gly Gln Trp Lys Ser Ile Thr Leu Phe Val  
 145 150 155 160

Gln Glu Asp Arg Ala Gln Leu Tyr Ile Asp Cys Glu Lys Met Glu Asn  
 165 170 175

Ala Glu Leu Asp Val Pro Ile Gln Ser Val Phe Thr Arg Asp Leu Ala  
 180 185 190

Ser Ile Ala Arg Leu Arg Ile Ala Lys Gly Gly Val Asn Asp Asn Phe  
 195 200 205

Gln Gly Val Leu Gln Asn Val Arg Phe Val Phe Gly Thr Thr Pro Glu  
 210 215 220

w110720005.ST25.txt

Asp Ile Leu Arg Asn Lys Gly Cys Ser Ser Ser Thr Ser Val Leu Leu  
225 230 235 240

Thr Leu Asp Asn Asn Val Val Asn Gly Ser Ser Pro Ala Ile Arg Thr  
245 250 255

Asn Tyr Ile Gly His Lys Thr Lys Asp Leu Gln Ala Ile Cys Gly Ile  
260 265 270

Ser Cys Asp Glu Leu Ser Ser Met Val Leu Glu Leu Arg Gly Leu Arg  
275 280 285

Thr Ile Val Thr Thr Leu Gln Asp Ser Ile Arg Lys Val Thr Glu Glu  
290 295 300

Asn Lys Glu Leu Ala Asn Glu Leu Arg Arg Pro Pro Leu Cys Tyr His  
305 310 315 320

Asn Gly Val Gln Tyr Arg Asn Asn Glu Glu Trp Thr Val Asp Ser Cys  
325 330 335

Thr Glu Cys His Cys Gln Asn Ser Val Thr Ile Cys Lys Lys Val Ser  
340 345 350

Cys Pro Ile Met Pro Cys Ser Asn Ala Thr Val Pro Asp Gly Glu Cys  
355 360 365

Cys Pro Arg Cys Trp Pro Ser Asp Ser Ala Asp Asp Gly Trp Ser Pro  
370 375 380

Trp Ser Glu Trp Thr Ser Cys Ser Thr Ser Cys Gly Asn Gly Ile Gln  
385 390 395 400

Gln Arg Gly Arg Ser Cys Asp Ser Leu Asn Asn Arg Cys Glu Gly Ser  
405 410 415

Ser Val Gln Thr Arg Thr Cys His Ile Gln Glu Cys Asp Lys Arg Phe  
420 425 430

Lys Gln Asp Gly Gly Trp Ser His Trp Ser Pro Trp Ser Ser Cys Ser  
435 440 445

Val Thr Cys Gly Asp Gly Val Ile Thr Arg Ile Arg Leu Cys Asn Ser  
450 455 460

Pro Ser Pro Gln Met Asn Gly Lys Pro Cys Glu Gly Glu Ala Arg Glu  
465 470 475 480

Thr Lys Ala Cys Lys<sub>485</sub> Lys Asp Ala Cys<sub>490</sub> Pro Ile Asn Gly Gly Trp<sub>495</sub> Gly  
Pro Trp Ser Pro<sub>500</sub> Trp Asp Ile Cys<sub>505</sub> Ser Val Thr Cys Gly Gly<sub>510</sub> Gly Val  
Gln Lys Arg<sub>515</sub> Ser Arg Leu Cys<sub>520</sub> Asn Asn Pro Ala Pro<sub>525</sub> Gln Phe Gly Gly  
Lys Asp<sub>530</sub> Cys Val Gly Asp<sub>535</sub> Val Thr Glu Asn Gln Ile<sub>540</sub> Cys Asn Lys Gln  
Asp<sub>545</sub> Cys Pro Ile Asp Gly<sub>550</sub> Cys Leu Ser Asn<sub>555</sub> Pro Cys Phe Ala Gly Val<sub>560</sub>  
Lys Cys Thr Ser<sub>565</sub> Tyr Pro Asp Gly Ser<sub>570</sub> Trp Lys Cys Gly Ala Cys<sub>575</sub> Pro  
Pro Gly Tyr Ser<sub>580</sub> Gly Asn Gly Ile<sub>585</sub> Gln Cys Thr Asp Val<sub>590</sub> Asp Glu Cys  
Lys Glu Val<sub>595</sub> Pro Asp Ala Cys<sub>600</sub> Phe Asn His Asn Gly<sub>605</sub> Glu His Arg Cys  
Glu Asn<sub>610</sub> Thr Asp Pro Gly Tyr<sub>615</sub> Asn Cys Leu Pro<sub>620</sub> Cys Pro Pro Arg Phe  
Thr<sub>625</sub> Gly Ser Gln Pro Phe<sub>630</sub> Gly Gln Gly Val<sub>635</sub> Glu His Ala Thr Ala Asn<sub>640</sub>  
Lys Gln Val Cys<sub>645</sub> Lys Pro Arg Asn Pro<sub>650</sub> Cys Thr Asp Gly Thr His Asp<sub>655</sub>  
Cys Asn Lys Asn<sub>660</sub> Ala Lys Cys Asn Tyr<sub>665</sub> Leu Gly His Tyr Ser Asp Pro  
Met Tyr Arg<sub>675</sub> Cys Glu Cys Lys Pro Gly Tyr Ala Gly Asn<sub>685</sub> Gly Ile Ile  
Cys Gly<sub>690</sub> Glu Asp Thr Asp Leu<sub>695</sub> Asp Gly Trp Pro Asn<sub>700</sub> Glu Asn Leu Val  
Cys Val Ala Asn Ala Thr<sub>710</sub> Tyr His Cys Lys Lys<sub>715</sub> Asp Asn Cys Pro Asn<sub>720</sub>  
Leu Pro Asn Ser Gly Gln Glu Asp Tyr Asp Lys Asp Gly Ile Gly Asp

725

730

735

Ala Cys Asp Asp Asp Asp Asp Asn Asp Lys Ile Pro Asp Asp Arg Asp  
                   740                  745                  750

Asn Cys Pro Phe His Tyr Asn Pro Ala Gln Tyr Asp Tyr Asp Arg Asp  
                   755                  760                  765

Asp Val Gly Asp Arg Cys Asp Asn Cys Pro Tyr Asn His Asn Pro Asp  
                   770                  775                  780

Gln Ala Asp Thr Asp Asn Asn Gly Glu Gly Asp Ala Cys Ala Ala Asp  
                   785                  790                  795                  800

Ile Asp Gly Asp Gly Ile Leu Asn Glu Arg Asp Asn Cys Gln Tyr Val  
                   805                  810                  815

Tyr Asn Val Asp Gln Arg Asp Thr Asp Met Asp Gly Val Gly Asp Gln  
                   820                  825                  830

Cys Asp Asn Cys Pro Leu Glu His Asn Pro Asp Gln Leu Asp Ser Asp  
                   835                  840                  845

Ser Asp Arg Ile Gly Asp Thr Cys Asp Asn Asn Gln Asp Ile Asp Glu  
                   850                  855                  860

Asp Gly His Gln Asn Asn Leu Asp Asn Cys Pro Tyr Val Pro Asn Ala  
                   865                  870                  875                  880

Asn Gln Ala Asp His Asp Lys Asp Gly Lys Gly Asp Ala Cys Asp His  
                   885                  890                  895

Asp Asp Asp Asn Asp Gly Ile Pro Asp Asp Lys Asp Asn Cys Arg Leu  
                   900                  905                  910

Val Pro Asn Pro Asp Gln Lys Asp Ser Asp Gly Asp Gly Arg Gly Asp  
                   915                  920                  925

Ala Cys Lys Asp Asp Phe Asp His Asp Ser Val Pro Asp Ile Asp Asp  
                   930                  935                  940

Ile Cys Pro Glu Asn Val Asp Ile Ser Glu Thr Asp Phe Arg Arg Phe  
                   945                  950                  955                  960

Gln Met Ile Pro Leu Asp Pro Lys Gly Thr Ser Gln Asn Asp Pro Asn  
                   965                  970                  975

Trp Val Val Arg His Gln Gly Lys Glu Leu Val Gln Thr Val Asn Cys  
 980 985 990

Asp Pro Gly Leu Ala Val Gly Tyr Asp Glu Phe Asn Ala Val Asp Phe  
 995 1000 1005

Ser Gly Thr Phe Phe Ile Asn Thr Glu Arg Asp Asp Asp Tyr Ala  
 1010 1015 1020

Gly Phe Val Phe Gly Tyr Gln Ser Ser Ser Arg Phe Tyr Val Val  
 1025 1030 1035

Met Trp Lys Gln Val Thr Gln Ser Tyr Trp Asp Thr Asn Pro Thr  
 1040 1045 1050

Arg Ala Gln Gly Tyr Ser Gly Leu Ser Val Lys Val Val Asn Ser  
 1055 1060 1065

Thr Thr Gly Pro Gly Glu His Leu Arg Asn Ala Leu Trp His Thr  
 1070 1075 1080

Gly Asn Thr Pro Gly Gln Val Arg Thr Leu Trp His Asp Pro Arg  
 1085 1090 1095

His Ile Gly Trp Lys Asp Phe Thr Ala Tyr Arg Trp Arg Leu Ser  
 1100 1105 1110

His Arg Pro Lys Thr Gly Phe Ile Arg Val Val Met Tyr Glu Gly  
 1115 1120 1125

Lys Lys Ile Met Ala Asp Ser Gly Pro Ile Tyr Asp Lys Thr Tyr  
 1130 1135 1140

Ala Gly Gly Arg Leu Gly Leu Phe Val Phe Ser Gln Glu Met Val  
 1145 1150 1155

Phe Phe Ser Asp Leu Lys Tyr Glu Cys Arg Asp Pro  
 1160 1165 1170

<210> 39

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Thrombospondin Region

<400> 39

Met Gly Leu Ala Trp Gly Leu Gly Val Leu Phe Leu Met His Val Cys

1 5 10 15

Gly Thr

<210> 40  
 <211> 240  
 <212> PRT  
 <213> Artificial

<220>  
 <223> Thrombospondin Region plus N-terminal domain

<400> 40

Asn Arg Ile Pro Glu Ser Gly Gly Asp Asn Ser Val Phe Asp Ile Phe  
 1 5 10 15

Glu Leu Thr Gly Ala Ala Arg Lys Gly Ser Gly Arg Arg Leu Val Lys  
 20 25 30

Gly Pro Asp Pro Ser Ser Pro Ala Phe Arg Ile Glu Asp Ala Asn Leu  
 35 40 45

Ile Pro Pro Val Pro Asp Asp Lys Phe Gln Asp Leu Val Asp Ala Val  
 50 55 60

Arg Ala Glu Lys Gly Phe Leu Leu Leu Ala Ser Leu Arg Gln Met Lys  
 65 70 75 80

Lys Thr Arg Gly Thr Leu Leu Ala Leu Glu Arg Lys Asp His Ser Gly  
 85 90 95

Gln Val Phe Ser Val Val Ser Asn Gly Lys Ala Gly Thr Leu Asp Leu  
 100 105 110

Ser Leu Thr Val Gln Gly Lys Gln His Val Val Ser Val Glu Glu Ala  
 115 120 125

Leu Leu Ala Thr Gly Gln Trp Lys Ser Ile Thr Leu Phe Val Gln Glu  
 130 135 140

Asp Arg Ala Gln Leu Tyr Ile Asp Cys Glu Lys Met Glu Asn Ala Glu  
 145 150 155 160

Leu Asp Val Pro Ile Gln Ser Val Phe Thr Arg Asp Leu Ala Ser Ile  
 165 170 175

Ala Arg Leu Arg Ile Ala Lys Gly Gly Val Asn Asp Asn Phe Gln Gly  
 180 185 190

Val Leu Gln Asn Val Arg Phe Val Phe Gly Thr Thr Pro Glu Asp Ile  
195 200 205

Leu Arg Asn Lys Gly Cys Ser Ser Ser Thr Ser Val Leu Leu Thr Leu  
210 215 220

Asp Asn Asn Val Val Asn Gly Ser Ser Pro Ala Ile Arg Thr Asn Tyr  
225 230 235 240

<210> 41  
<211> 22  
<212> PRT  
<213> Artificial

<220>  
<223> Thrombospondin region plus domain of inter-chain disulfide bonds  
<400> 41

Ile Gly His Lys Thr Lys Asp Leu Gln Ala Ile Cys Gly Ile Ser Cys  
1 5 10 15

Asp Glu Leu Ser Ser Met  
20

<210> 42  
<211> 98  
<212> PRT  
<213> Artificial

<220>  
<223> Thrombospondin region plus procollagen homology domain  
<400> 42

Val Leu Glu Leu Arg Gly Leu Arg Thr Ile Val Thr Thr Leu Gln Asp  
1 5 10 15

Ser Ile Arg Lys Val Thr Glu Glu Asn Lys Glu Leu Ala Asn Glu Leu  
20 25 30

Arg Arg Pro Pro Leu Cys Tyr His Asn Gly Val Gln Tyr Arg Asn Asn  
35 40 45

Glu Glu Trp Thr Val Asp Ser Cys Thr Glu Cys His Cys Gln Asn Ser  
50 55 60

Val Thr Ile Cys Lys Lys Val Ser Cys Pro Ile Met Pro Cys Ser Asn  
65 70 75 80

Ala Thr Val Pro Asp Gly Glu Cys Cys Pro Arg Cys Trp Pro Ser Asp  
Page 16



Ser Ala

<210> 43  
<211> 170  
<212> PRT  
<213> Artificial

<220>  
<223> Thrombospondin region plus domain of type 1 repeats

<400> 43

Asp Asp Gly Trp Ser Pro Trp Ser Glu Trp Thr Ser Cys Ser Thr Ser  
1 5 10 15

Cys Gly Asn Gly Ile Gln Gln Arg Gly Arg Ser Cys Asp Ser Leu Asn  
20 25 30

Asn Arg Cys Glu Gly Ser Ser Val Gln Thr Arg Thr Cys His Ile Gln  
35 40 45

Glu Cys Asp Lys Arg Phe Lys Gln Asp Gly Gly Trp Ser His Trp Ser  
50 55 60

Pro Trp Ser Ser Cys Ser Val Thr Cys Gly Asp Gly Val Ile Thr Arg  
65 70 75 80

Ile Arg Leu Cys Asn Ser Pro Ser Pro Gln Met Asn Gly Lys Pro Cys  
85 90 95

Glu Gly Glu Ala Arg Glu Thr Lys Ala Cys Lys Lys Asp Ala Cys Pro  
100 105 110

Ile Asn Gly Gly Trp Gly Pro Trp Ser Pro Trp Asp Ile Cys Ser Val  
115 120 125

Thr Cys Gly Gly Gly Val Gln Lys Arg Ser Arg Leu Cys Asn Asn Pro  
130 135 140

Ala Pro Gln Phe Gly Gly Lys Asp Cys Val Gly Asp Val Thr Glu Asn  
145 150 155 160

Gln Ile Cys Asn Lys Gln Asp Cys Pro Ile  
165 170

<210> 44  
<211> 143

<212> PRT

<213> Artificial

<220>

<223> Thrombospondin region plus domain of type 2 repeats

<400> 44

Asp Gly Cys Leu Ser Asn Pro Cys Phe Ala Gly Val Lys Cys Thr Ser  
1 5 10 15

Tyr Pro Asp Gly Ser Trp Lys Cys Gly Ala Cys Pro Pro Gly Tyr Ser  
20 25 30

Gly Asn Gly Ile Gln Cys Thr Asp Val Asp Glu Cys Lys Glu Val Pro  
35 40 45

Asp Ala Cys Phe Asn His Asn Gly Glu His Arg Cys Glu Asn Thr Asp  
50 55 60

Pro Gly Tyr Asn Cys Leu Pro Cys Pro Pro Arg Phe Thr Gly Ser Gln  
65 70 75 80

Pro Phe Gly Gln Gly Val Glu His Ala Thr Ala Asn Lys Gln Val Cys  
85 90 95

Lys Pro Arg Asn Pro Cys Thr Asp Gly Thr His Asp Cys Asn Lys Asn  
100 105 110

Ala Lys Cys Asn Tyr Leu Gly His Tyr Ser Asp Pro Met Tyr Arg Cys  
115 120 125

Glu Cys Lys Pro Gly Tyr Ala Gly Asn Gly Ile Ile Cys Gly Glu  
130 135 140

<210> 45

<211> 24

<212> PRT

<213> Artificial

<220>

<223> Thrombospondin Region plus region between the type 2 and the type 3 repeat

<400> 45

Asp Thr Asp Leu Asp Gly Trp Pro Asn Glu Asn Leu Val Cys Val Ala  
1 5 10 15

Asn Ala Thr Tyr His Cys Lys Lys  
20

<210> 46  
 <211> 36  
 <212> PRT  
 <213> Artificial

<220>  
 <223> Thrombospondin region

<400> 46

Asp Asn Cys Pro Asn Leu Pro Asn Ser Gly Gln Glu Asp Tyr Asp Lys  
 1 5 10 15

Asp Gly Ile Gly Asp Ala Cys Asp Asp Asp Asp Asn Asp Lys Ile  
 20 25 30

Pro Asp Asp Arg  
 35

<210> 47  
 <211> 23  
 <212> PRT  
 <213> Artificial

<220>  
 <223> Thrombospondin Region

<400> 47

Asp Asn Cys Pro Phe His Tyr Asn Pro Ala Gln Tyr Asp Tyr Asp Arg  
 1 5 10 15

Asp Asp Val Gly Asp Arg Cys  
 20

<210> 48  
 <211> 36  
 <212> PRT  
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<220>  
 <223> Thrombospondin Region

<400> 48

Asp Asn Cys Pro Tyr Asn His Asn Pro Asp Gln Ala Asp Thr Asp Asn  
 1 5 10 15

Asn Gly Glu Gly Asp Ala Cys Ala Ala Asp Ile Asp Gly Asp Gly Ile  
 20 25 30

Leu Asn Glu Arg  
 35

<210> 49

<211> 23  
<212> PRT  
<213> Artificial

<220>  
<223> thrombospondin region

<400> 49

Asp Asn Cys Gln Tyr Val Tyr Asn Val Asp Gln Arg Asp Thr Asp Met  
1 5 10 15

Asp Gly Val Gly Asp Gln Cys  
20

<210> 50  
<211> 38  
<212> PRT  
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<220>  
<223> Thrombospondin Region

<400> 50

Asp Asn Cys Pro Leu Glu His Asn Pro Asp Gln Leu Asp Ser Asp Ser  
1 5 10 15

Asp Arg Ile Gly Asp Thr Cys Asp Asn Asn Gln Asp Ile Asp Glu Asp  
20 25 30

Gly His Gln Asn Asn Leu  
35

<210> 51  
<211> 36  
<212> PRT  
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<220>  
<223> Thrombospondin region

<400> 51

Asp Asn Cys Pro Tyr Val Pro Asn Ala Asn Gln Ala Asp His Asp Lys  
1 5 10 15

Asp Gly Lys Gly Asp Ala Cys Asp His Asp Asp Asp Asn Asp Gly Ile  
20 25 30

Pro Asp Asp Lys  
35

<210> 52  
<211> 36

<212> PRT  
<213> Artificial

<220>  
<223> Thrombospondin region plus domain of type 3 repeats

<400> 52

Asp Asn Cys Arg Leu Val Pro Asn Pro Asp Gln Lys Asp Ser Asp Gly  
1 5 10 15

Asp Gly Arg Gly Asp Ala Cys Lys Asp Asp Phe Asp His Asp Ser Val  
20 25 30

Pro Asp Ile Asp  
35

<210> 53  
<211> 227  
<212> PRT  
<213> Artificial

<220>  
<223> Thrombospondin Region plus C-terminal domain

<400> 53

Asp Ile Cys Pro Glu Asn Val Asp Ile Ser Glu Thr Asp Phe Arg Arg  
1 5 10 15

Phe Gln Met Ile Pro Leu Asp Pro Lys Gly Thr Ser Gln Asn Asp Pro  
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Asn Trp Val Val Arg His Gln Gly Lys Glu Leu Val Gln Thr Val Asn  
35 40 45

Cys Asp Pro Gly Leu Ala Val Gly Tyr Asp Glu Phe Asn Ala Val Asp  
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Phe Ser Gly Thr Phe Phe Ile Asn Thr Glu Arg Asp Asp Asp Tyr Ala  
65 70 75 80

Gly Phe Val Phe Gly Tyr Gln Ser Ser Ser Arg Phe Tyr Val Val Met  
85 90 95

Trp Lys Gln Val Thr Gln Ser Tyr Trp Asp Thr Asn Pro Thr Arg Ala  
100 105 110

Gln Gly Tyr Ser Gly Leu Ser Val Lys Val Val Asn Ser Thr Thr Gly  
115 120 125

Pro Gly Glu His Leu Arg Asn Ala Leu Trp His Thr Gly Asn Thr Pro  
Page 21

130

135

Gly Gln Val Arg Thr Leu Trp His Asp Pro Arg His Ile Gly Trp Lys  
145 150 155 160

Asp Phe Thr Ala Tyr Arg Trp Arg Leu Ser His Arg Pro Lys Thr Gly  
165 170 175

Phe Ile Arg Val Val Met Tyr Glu Gly Lys Lys Ile Met Ala Asp Ser  
180 185 190

Gly Pro Ile Tyr Asp Lys Thr Tyr Ala Gly Gly Arg Leu Gly Leu Phe  
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Val Phe Ser Gln Glu Met Val Phe Phe Ser Asp Leu Lys Tyr Glu Cys  
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Arg Asp Pro  
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Arg Lys Gly Ser Gly Arg Arg Leu Val Lys  
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